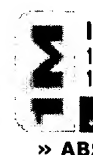


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## Architecture for IP mobility

Khalil, M. Pillai, K.

IP Mobility Group, Nortel Networks, Richardson, TX, USA;

*This paper appears in: **Emerging Technologies Symposium: Broadband, Internet Access, 2000 IEEE***

Meeting Date: 04/10/2000 - 04/11/2000

Publication Date: 10-11 April 2000

Location: Richardson, TX USA

On page(s): 5 pp.

Reference Cited: 11

Number of Pages: 212

Inspec Accession Number: 6965060

### Abstract:

The Mobile IP protocol specifies an IP mobility solution for both IPv4 and IPv6 introduces the concept of a home agent (HA) and a foreign agent (FA) which are essential pieces in the architecture. The main goal is to achieve seamless mobile node moves from its home subnet to any other point of attachment. Mobile IP, however, has limitations with routing, handoff, and security. The IP mobility architecture proposed in this paper is a high level architecture derived from the Mobile IP compensates for its limitations. This architecture introduces the concept of a mobility manager (SMM) in the serving network and a home mobility manager in the home network of the mobile user, among other additional components. The framework provides security through IPSec along both the data and the control plane. It also provides a mechanism for improving handoffs. IPM provides seamless application layer mobility for upper layer protocols such as SIP (Session Initiation Protocol) a signaling protocol for controlling sessions such as Internet multimedia conferences, Internet telephone calls and multimedia distribution.

### Index Terms:

[Internet](#) [land mobile radio](#) [multimedia communication](#) [software agents](#) [software architecture](#) [telecommunication network management](#) [telecommunication network routing](#) [telecommunication security](#) [telecommunication signalling](#) [transport protocols](#) [IP mobility architecture](#) [IP](#) [IPv6](#) [Internet multimedia conferences](#) [Internet telephone calls](#) [Mobile IP protocol](#) [Session Initiation Protocol](#) [foreign agent](#) [handoff](#) [home agent](#) [home mobility manager](#) [home subnet](#) [mobile node](#) [multimedia distribution](#) [routing](#) [seamless application layer](#)

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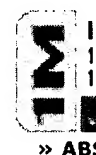
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## An architecture of distributed media servers for supported guaranteed QoS and media indexing

[Feng Cao](#) [Smith, J.](#) [Takahashi, K.](#)

Cisco Syst. Inc., San Jose, CA, USA ;

*This paper appears in: **Multimedia Computing and Systems, 1999. IEEE International Conference on***

Meeting Date: 06/07/1999 - 06/11/1999

Publication Date: 7-11 June 1999

Location: Florence Italy

On page(s): 1 - 5 vol.2

Volume: 2

Reference Cited: 6

Number of Pages: 2 vol. (xlix+909+1127)

Inspec Accession Number: 6331285

### Abstract:

In a distributed multimedia system, multimedia sessions may get involved with media servers for the retrieval of the media data or the creation of new multimedia documents. To provide the guaranteed Quality of Service (QoS) to real-time applications such as continuous media transfers, the system resources in the media server are reserved to avoid contention during execution time. Media indexing is also needed to support searching the media data in such a distributed environment and to provide necessary information about the usage of system resources for delivering the data. Due to the overhead, a centralized approach of scheduling all the requests for searching all the media data from only one agent is not efficient, and not scalable. In this study, we propose a new architecture, dividing the media servers into multiple groups of the right size. Within each group, there is a registration agent and an index agent that take care of the resource reservation, membership management, media indexing, searching, and load balancing. We demonstrate how to provide the guaranteed QoS by scheduling the requests among the multiple groups, and show the collaboration among the registration agents and the index agents inside and outside a group. The multimedia servers can fit in this architecture by the updates of membership status. The new IETF drafts such as SIP, RTSP and RTP are embodied in this architecture to support the general multiparty multimedia applications for media streams.

**Index Terms:**

[database indexing](#) [distributed processing](#) [multimedia computing](#) [multimedia servers](#) [service](#) [real-time systems](#) [resource allocation](#) [scheduling](#) [IETF](#) [Quality of Service](#) [approach](#) [continuous media transfers](#) [distributed media servers](#) [distributed multimed](#) [execution time](#) [index agent](#) [load balancing](#) [media indexing](#) [membership managem](#) [media servers](#) [multiparty multimedia applications](#) [multiple media servers](#) [real-time a](#) [registration agent](#) [resource reservation](#) [scheduling](#) [searching](#)

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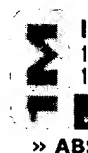
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## VoIP in applications for wireless access

Kanter, T. Olrog, C.

Ericsson Radio Syst. AB, Stockholm, Sweden;

*This paper appears in: Local and Metropolitan Area Networks, 1999. Sel Papers. 10th IEEE Workshop on*

Meeting Date: 11/21/1999 - 11/24/1999

Publication Date: 21-24 Nov. 1999

Location: Sydney, NSW Australia

On page(s): 122 - 125

Reference Cited: 6

Number of Pages: v+141

Inspec Accession Number: 7037038

### Abstract:

Voice over IP (or VoIP) is a common term to refer to the different protocols that transport realtime voice and video and the necessary signaling by means of Internet Protocol (IP). H.323 is an ITU-T standard for real-time voice and video communication over packet networks. During the past two years it has become standard on the Internet for VoIP. Another relatively recent alternative example (Session Initiation Protocol) for establishing multimedia sessions, that has been as an RFC by the IETF. The cost to transmit digital information end-to-end is dramatically, while there has been a tremendous increase in the available bandwidth only has this been true in backbone networks, it has become the trend in access networks for both fixed and wireless access. The price/performance of end-user electronics is dropping while, at the same time, there has been a tremendous computational power. As far as personal communication and mobility is concerned, we are in the position to create new applications and services that go far beyond telephony systems have been concerned with and able to accomplish. One of the contributing factors is the Internet Protocol, which allows these new applications to benefit from the fact that end-user devices are now able to use multiple services over a single access. The result is that we are now able to build new interactive services, which can combine both voice and data simultaneously.

### Index Terms:

[Internet telephony](#) [protocols](#) [radio access networks](#) [standards](#) [H.323](#) [Internet Protocol](#) [Initiation Protocol](#) [VoIP](#) [interactive services](#) [multimedia sessions](#) [wireless access](#)

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### REPOST: Re: CFD: UDP of mci2000

... 194.234 NNTP-Posting-Date: Sat, 15 Aug 1998 18:42:52 PDT  
Organization: **@Home Network** Super Seed! ... ypq cfnl ala vhoh uj ubk yddi xlg alyk uwge rb yrdt sip oh spe ...  
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... 1-800 55 00 44 Deutsche Telekom 1-800 55 00 49 Italia (**SIP**) 1-800 ... for incoming and outgoing voice calls, and the receipt of SMS messages via your **home network**. ...  
[rec.travel.europe](#) - Aug 9, 1995 by Richard Barry - [View Thread](#) (2 articles)

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[rec.travel.europe](#) - Apr 27, 1996 by Richard Barry - [View Thread](#) (14 articles)

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... Routing WG SEC tIs Transport Layer Security WG TSV sipTel **SIP** for IP ... Interes Fred Baker/Cisco Systems INT Internet Jeffrey Burgan **@Home Network** and Thomas ...  
[muc.lists.ietf](#) - Nov 26, 1997 by agenda@ns.ietf.org - [View Thread](#) (2 articles)

### Technical objections -- Mobility

... used for the Mobile-Home Authentication.) Although my early drafts (for **SIP** and Mobile ... MUST be a router between the Internet and the stub **home network**, and only ...  
[info.ietf](#) - Mar 20, 1996 by William Allen Simpson - [View Thread](#) (8 articles)

### NEW: VOY: "The Shape of Things to Come" (NC-17, P/K, ??) 9/13

... Sep 1998 06:36:08 GMT From: mykkhal@bigfoot.com (Mykkhal) Organization: **@Home Network** To: alt ... reports from all over the ship." The captain stopped to sip at her ...  
[alt.startrek.creative.erotica.moderated](#) - Sep 10, 1998 by Mykkhal - [View Thread](#) (1 article)

### Re: WndrGr!s Parting Shot

... accessing the web outside of the company servers and not even through **SIP** / EL ...  
PST) NNTP-Posting-Date: Wed, 29 Mar 2000 18:04:11 PST Organization: **@Home**



**Network**

[alt.cellular.sprintpcs](#) - Apr 3, 2000 by Bob Smith - [View Thread \(90 articles\)](#)

**NEW: VOY: "The Shape of Things to Come" (NC-17 P/K ?/?) 8/13**

... 1998 06:36:07 GMT From: mykkhal@bigfoot.com (Mykkhal) Organization: **@Home Network** To: alt ... Captain." "Have a seat, Ensign." He watched her take a sip of coffee ...

[alt.startrek.creative.erotica.moderated](#) - Sep 10, 1998 by Mykkhal - [View Thread \(1 article\)](#)

**Re: Proof that Daniella Bryenton never were censored, or blocked ...**

... Organization: **@Home Network**. ... Host: 216.154.5.102 ===== Date: Wed, 01 Nov 2000 23:59:30 GMT Message-ID: <8tqaot\$**sip**\$1@nnrp1 ...  
[alt.religion.scientology](#) - Nov 11, 2000 by ©Anti-Cult® - [www.users.wineasy.se/noname/](#) - [View Thread \(8 articles\)](#)

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